RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10 5 19, 476

Source: PCT

Date Processed by STIC: 4-3-06

ENTERED

RAW SEQUENCE LISTING   DATE: 04/03/2006
PATENT APPLICATION: US/10/519,476   TIME: 08:20:00

Input Set : A:\793392_1.TXT
Output Set: N:\CRF4\04032006\J519476.raw

```
   4 <110> APPLICANT: GENOMINE INC.
   5        KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY
   7 <120> TITLE OF INVENTION: Novel polypeptide having function of 7-keto-8-
aminopelargonic
   8        acid synthase of plant and method for inducing growth inhibition
   9        and lethality by suppressing expression of the polypeptide
  11 <130> FILE REFERENCE: OP03-1029
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/519,476
C--> 13 <141> CURRENT FILING DATE: 2004-12-30
  13 <150> PRIOR APPLICATION NUMBER: KR 2002-38011
  14 <151> PRIOR FILING DATE: 2002-07-02
  16 <160> NUMBER OF SEQ ID NOS: 6
  18 <170> SOFTWARE: KopatentIn 1.71
  20 <210> SEQ ID NO: 1
  21 <211> LENGTH: 1410
  22 <212> TYPE: DNA
  23 <213> ORGANISM: Arabidopsis thaliana
  25 <400> SEQUENCE: 1
  26 atggcggatc attcgtggga taaaactgtg gaagaagcag tgaatgtgct tgaatccagg      60
  28 caaattcttc gatctttgag gcccatttgc atgtctaggc aaaacgaaga agaaatagtg     120
  30 aaaagcagag ccaatggagg agacgggtac gaggtgttcg acggtttgtg tcaatgggat     180
  32 cggacttcag ttgaggtgtc tgtctcgatt cctacatttc agaaatggct tcacgatgaa     240
  34 cccagcaacg gagaagagat ttttagtgga gatgcattag ctgagtgtag aaaagggaga     300
  36 ttcaagaagc tgcttttgtt ctctgggaat gattatttgg gtttgagctc acatcctaca     360
  38 atatcaaacg ctgctgcaaa cgcagtcaaa gaatatggta tgggacctaa gggttctgct     420
  40 ttaatatgtg gctataccac ttatcatcgt ttgcttgagt ctagtttggc gcaactgaag     480
  42 aaaaaagagg attgtcttgt ttgtcctact gggtttgctg ccaatatggc tgcaatggtt     540
  44 gcaattggaa gtgttgcttc tcttttggcc gctagcggga aacctctgaa gaatgaaaaa     600
  46 gttgccatct tttctgatgc gctgaatcat gcatcaatta ttgatggtgt ccgtcttgct     660
  48 gaacgacaag gaaatgttga agtttttgtt tatcgacact gtgacatatc aaattgcaaa     720
  50 atgaagagga aggtcgtggt gactgatagc ttatttagta tggacggtga ctttgcacca     780
  52 atggaagagc tctctcagct tcggaagaag tatggcttcc ttctagttat tgatgatgct     840
  54 catggaacat ttgtctgtgg agaaaacggt ggtggcgtgg ctgaggaatt taactgtgaa     900
  56 gctgatgtag atttatgtgt gggcactttg agtaaggcag cagggtgtca tggcggtttc     960
  58 atagcttgca gcaaaaaatg gaagcaactg atacagtcga gaggtcgttc attcatattt    1020
  60 tcaacagcaa tccctgtccc aatggctgca gctgcttatg cagcagttgt agtggcgagg    1080
  62 aaggagatat ggagaagaaa ggcaatatgg gagagggtaa aagagttcaa ggaattatct    1140
  64 ggagttgaca tctcaagccc cattatctca cttgttgtag ggaatcaaga gaaagccctc    1200
  66 aaagcgagcc ggtatctatt aaaatcaggc ttccatgtaa tggcaatacg accgcccaca    1260
  68 gtgccaccca attcttgcag gctaagggtg acactgagtg cagcacatac cacagaagat    1320
  70 gtgaagaaac tcatcactgc gctttcttct tgtttggact ttgacaacac agccactcac    1380
  72 attccttcct ttctatttcc caaattataa                                     1410
  75 <210> SEQ ID NO: 2
  76 <211> LENGTH: 469
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77 <212> TYPE: PRT
78 <213> ORGANISM: Arabidopsis thaliana
80 <400> SEQUENCE: 2
81 Met Ala Asp His Ser Trp Asp Lys Thr Val Glu Glu Ala Val Asn Val
82   1               5                  10                  15
84 Leu Glu Ser Arg Gln Ile Leu Arg Ser Leu Arg Pro Ile Cys Met Ser
85              20                  25                  30
87 Arg Gln Asn Glu Glu Glu Ile Val Lys Ser Arg Ala Asn Gly Gly Asp
88              35                  40                  45
90 Gly Tyr Glu Val Phe Asp Gly Leu Cys Gln Trp Asp Arg Thr Ser Val
91       50                  55                  60
93 Glu Val Ser Val Ser Ile Pro Thr Phe Gln Lys Trp Leu His Asp Glu
94  65                  70                  75                  80
96 Pro Ser Asn Gly Glu Glu Ile Phe Ser Gly Asp Ala Leu Ala Glu Cys
97                  85                  90                  95
99 Arg Lys Gly Arg Phe Lys Lys Leu Leu Leu Phe Ser Gly Asn Asp Tyr
100             100                 105                 110
102 Leu Gly Leu Ser Ser His Pro Thr Ile Ser Asn Ala Ala Ala Asn Ala
103             115                 120                 125
105 Val Lys Glu Tyr Gly Met Gly Pro Lys Gly Ser Ala Leu Ile Cys Gly
106       130                 135                 140
108 Tyr Thr Thr Tyr His Arg Leu Leu Glu Ser Ser Leu Ala Gln Leu Lys
109 145                 150                 155                 160
111 Lys Lys Glu Asp Cys Leu Val Cys Pro Thr Gly Phe Ala Ala Asn Met
112             165                 170                 175 .
114 Ala Ala Met Val Ala Ile Gly Ser Val Ala Ser Leu Leu Ala Ala Ser
115             180                 185                 190
117 Gly Lys Pro Leu Lys Asn Glu Lys Val Ala Ile Phe Ser Asp Ala Leu
118             195                 200                 205
120 Asn His Ala Ser Ile Ile Asp Gly Val Arg Leu Ala Glu Arg Gln Gly
121       210                 215                 220
123 Asn Val Glu Val Phe Val Tyr Arg His Cys Asp Ile Ser Asn Cys Lys
124 225                 230                 235                 240
126 Met Lys Arg Lys Val Val Val Thr Asp Ser Leu Phe Ser Met Asp Gly
127             245                 250                 255
129 Asp Phe Ala Pro Met Glu Glu Leu Ser Gln Leu Arg Lys Lys Tyr Gly
130             260                 265                 270
132 Phe Leu Leu Val Ile Asp Asp Ala His Gly Thr Phe Val Cys Gly Glu
133       275                 280                 285
135 Asn Gly Gly Gly Val Ala Glu Glu Phe Asn Cys Glu Ala Asp Val Asp
136       290                 295                 300
138 Leu Cys Val Gly Thr Leu Ser Lys Ala Ala Gly Cys His Gly Gly Phe
139 305                 310                 315                 320
141 Ile Ala Cys Ser Lys Lys Trp Lys Gln Leu Ile Gln Ser Arg Gly Arg
142             325                 330                 335
144 Ser Phe Ile Phe Ser Thr Ala Ile Pro Val Pro Met Ala Ala Ala Ala
145             340                 345                 350
147 Tyr Ala Ala Val Val Val Ala Arg Lys Glu Ile Trp Arg Arg Lys Ala
148       355                 360                 365
```

```
150 Ile Trp Glu Arg Val Lys Glu Phe Lys Glu Leu Ser Gly Val Asp Ile
151     370             375             380
153 Ser Ser Pro Ile Ile Ser Leu Val Val Gly Asn Gln Glu Lys Ala Leu
154 385             390             395                 400
156 Lys Ala Ser Arg Tyr Leu Leu Lys Ser Gly Phe His Val Met Ala Ile
157             405             410             415
159 Arg Pro Pro Thr Val Pro Pro Asn Ser Cys Arg Leu Arg Val Thr Leu
160         420             425             430
162 Ser Ala Ala His Thr Thr Glu Asp Val Lys Lys Leu Ile Thr Ala Leu
163         435             440             445
165 Ser Ser Cys Leu Asp Phe Asp Asn Thr Ala Thr His Ile Pro Ser Phe
166     450             455             460
168 Leu Phe Pro Lys Leu
169 465
172 <210> SEQ ID NO: 3
173 <211> LENGTH: 28
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Forward primer for AtKAPAS gene
181 <400> SEQUENCE: 3
182 ggcggatcct tcgcccaaat cacaattc                                  28
185 <210> SEQ ID NO: 4
186 <211> LENGTH: 32
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Reverse primer for AtKAPAS gene
194 <400> SEQUENCE: 4
195 ggcaagcttt tcactgacaa tatcagaaac aa                             32
198 <210> SEQ ID NO: 5
199 <211> LENGTH: 26
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Forward primer for AtKAPAS gene
207 <400> SEQUENCE: 5
208 gcagatcttc gcccaaatca caattc                                    26
211 <210> SEQ ID NO: 6
212 <211> LENGTH: 31
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Reverse primer for AtKAPAS gene
220 <400> SEQUENCE: 6
221 gcagatcttt cactgacaat atcagaaaca a                              31
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VERIFICATION SUMMARY   DATE: 04/03/2006
PATENT APPLICATION: US/10/519,476   TIME: 08:20:01

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date